traxon

Mood Light Motion

INSTALLATION GUIDE

V0.5

Cover:
Mood Light Motion

traxon

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1. INTRODUCTION

1.1 General

The Mood Light Motion interactive lighting panels combine LED lighting with motion sensing technology to create stunning interactive architectural lighting solutions. Each module is a stand alone system, but more can be added to create any size or shape up to 255 modules with auto addressing. Different surface materials options available.

Features:

- 16 RGB LEDs
- 16 Capacitive sensors
- Plastic UL-94-V0 rated fire retardant housing
- 24V DC nominal
- Integrated Controller

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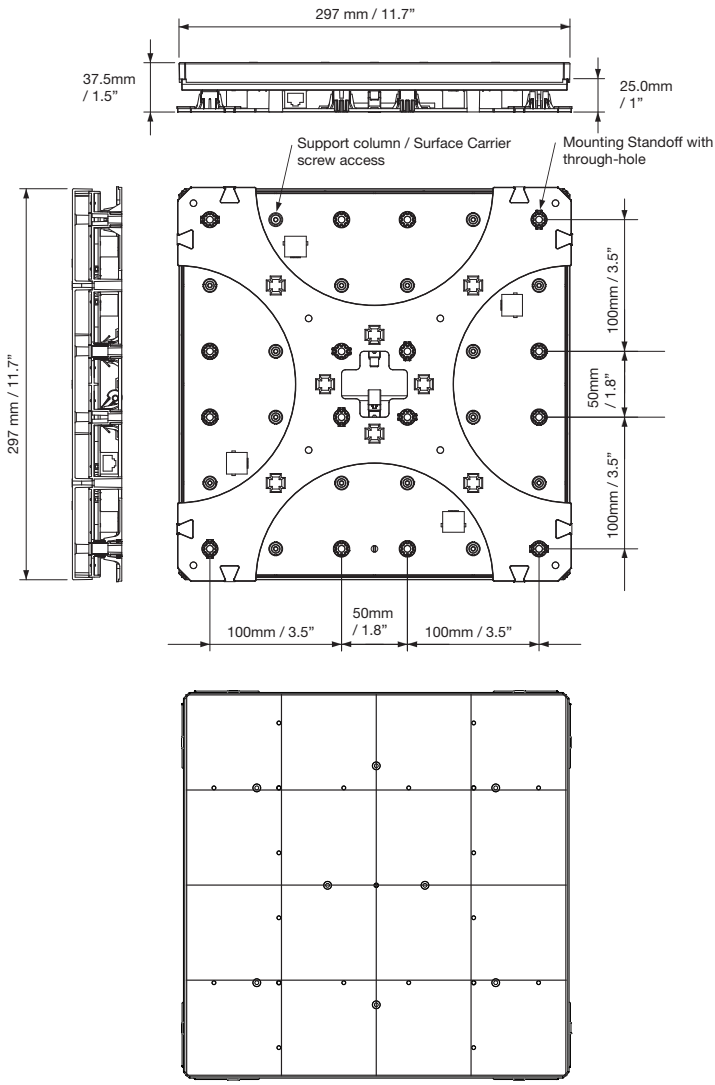
1.2 Dimensions

FIG.1: Mood Light Motion



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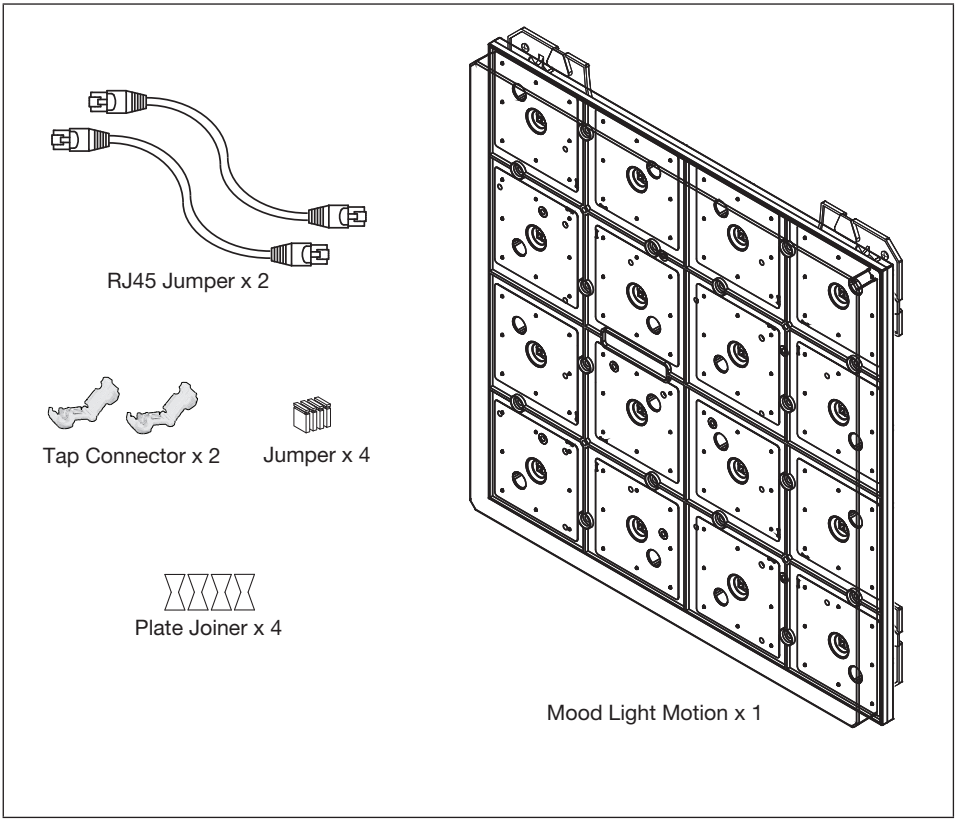
1.3 Packing Contents

FIG.2: Packing Contents



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2. INSTALLATION

2.1 Points To Consider

Plan your installation before mounting any Mood Light Motions. The following should be considered for a successful installation:

- This is a indoor product only, do not install in outdoor environment.
- Weather conditions and ambient temperature of installation site.
- Installation distances and appropriate cable lengths. Please consult your local Traxon™ office or authorized agent for necessary aid.
- The number of Mood Light Motions and appropriate power sources.
- Proper surge protection.

2.1.1 Installation Checklist

1. Prepare cables and all necessary accessories.
2. Perform functional check of Mood Light Motions. Take care not to damage cables/ connectors during pre-installation checks.
3. Ensure all pre-installation checks laid out below have been followed.

Ensure all the Interconnection Cables, Mood Light Motions and power sources are stored in a dry area to guarantee the complete sealing of the system from water before and after installation.

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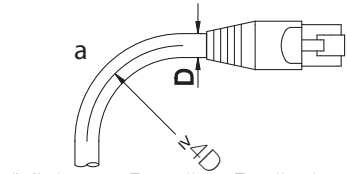
2.2 Pre-Installation Checks

2.2.1 Cable Bending

Cable must NOT be bent below the Minimum Bending Radius (4 x Cable Diameter) as specified by cable manufacturer.

Bending radius (for conductors) Note the minimum bending radius for conductors > 1.5mm2. Pull forces on the contact points can be avoided by proceeding as follows: a – Bend the wire as required	 (Minimum Bending Radius) FIG.3: Cable Bending

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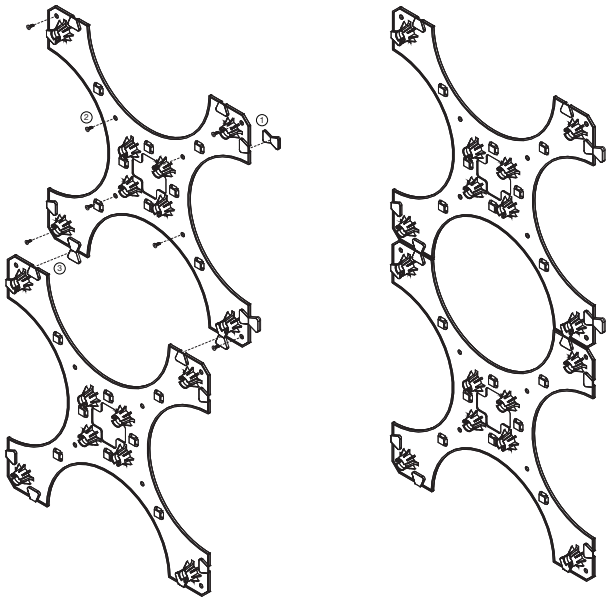
2.3 On-Site Installation

- DO NOT attempt installation in wet or severe weather conditions.
- DO NOT leave and expose any Mood Light Motions or power sources unconnected under wet/raining or snowing environment.
- IP failure induced by stressed/damaged cables during or after installation will not be under warranty by Traxon Technologies.
- ALWAYS keep the cables protected from sharp objects and ensure no damage is generated on the cable.

2.3.1 Wall Installation

1. Attach 2 plate joiner on each side where adjacent mounting plates will be attached. Fix the rear mounting plates to the wall or surface using the 8 fastening holes. The bottom mounting plate is attached as an example.

FIG.4: Mounting Rear Mounting Plate



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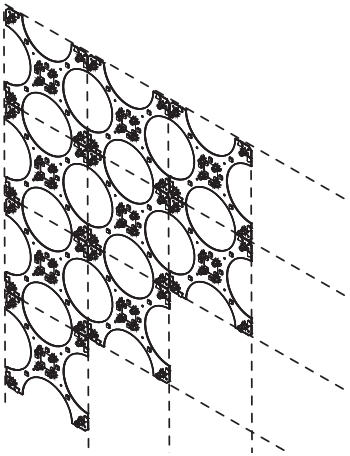
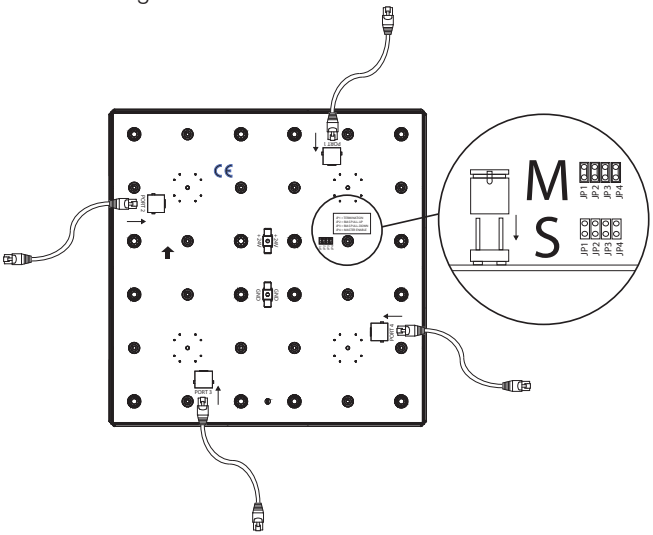
2. Make sure the plates are attached square and level on the wall. Lay out the design starting from upper left and move across to right and down.

FIG.5: Installation Direction



3. Prepare modules for installation. For each panel configure one module to be Master module, and the rest to be Slave module.

FIG.6: Interconnecting fixtures



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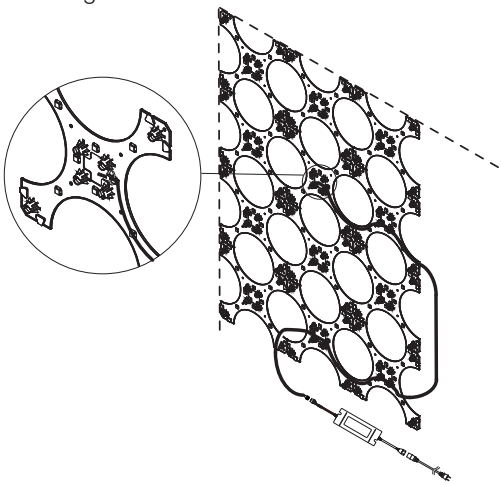
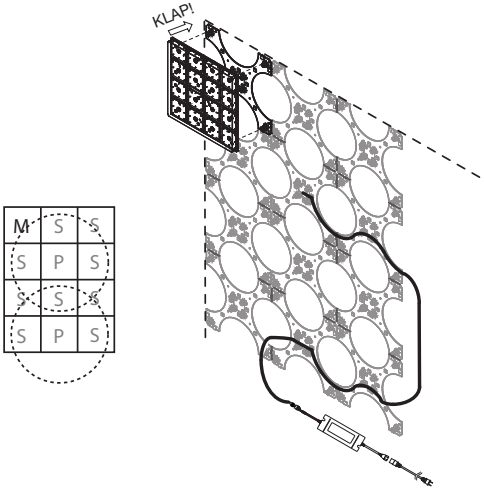
4. Attach the power wiring harness using cable ties. There needs to be at least one connection within every group of 9 modules.

FIG.7: Cable Tie Mounting Position



5. With the jumpers and surface material on the modules start populating the wall. Connect the jumpers and power wiring harness and snap the modules into the mounting plates. Begin with Master module.

FIG.8: Snap Modules onto Rear Mounting Plates



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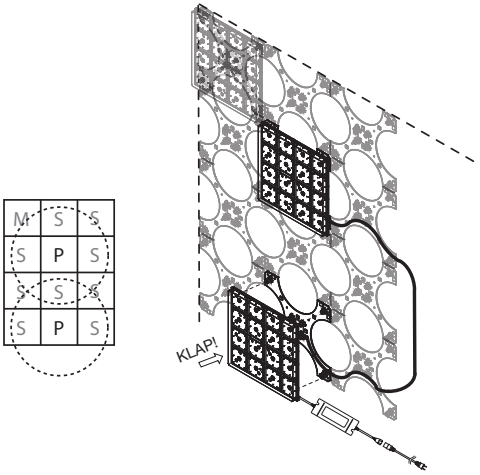
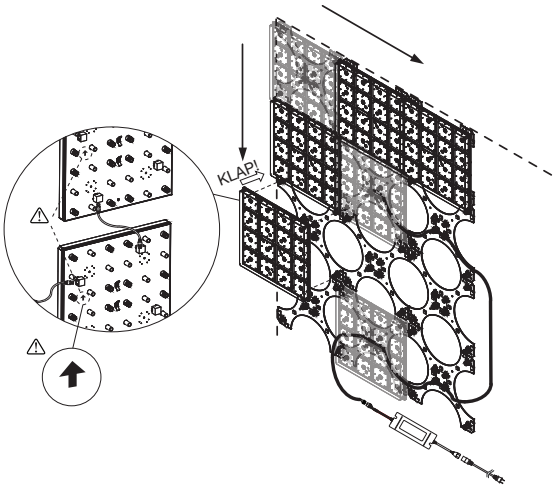
6. Attach the power wiring harness to the modules which can effectively distribute power to nearby modules.

FIG.9: Mounting Power Wiring Harness



7. Attach the rest of the modules to the mounting plates. Make sure that all modules are aligned at the same direction indicated by the arrow at the back of the module.

FIG.10: Snap Rest of the Modules onto Mounting Plates



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3. SAFETY AND OPERATION

1. Caution - Unplug the power supply from the mains power before connecting any cables as this can damage the products.
2. Caution - Avoid looking directly into the LED light source at close range for your own safety.
3. Persons installing this products should make sure:
    1. The installation complies with all applicable codes, state and local laws, ordinances, standards and safety regulations.
    2. The installation environment is carefully studied and suitable surge protection measure(s) is taken.
    3. He or she is qualified for the handling of electrical equipment.
4. Do not attempt to install or use the product until installation instructions and safety labels are fully understood. This product is designed for indoor and outdoor use.
5. Ensure product operates within the specified temperature range. (Refer to 6. TECHNICAL SPECIFICATION for more details.)
6. Do not attempt to open the product. Not user serviceable.
7. Do not use the product if any part of it, or the power cables are damaged.
8. Only use product for specified voltage, do not exceed. (Refer to 6. TECHNICAL SPECIFICATION for more details.)
9. Always maintain connection to ensure waterproofing.
10. If the product has been subjected to drastic temperature variances, for example, following transportation, do not connect the fixture until it has reached room temperature, as moisture condensation may cause electric shock and product damages.
11. When installing the products and system power supplies, please ensure they will not be exposed to moisture and extreme heat (and direct sunlight for outdoor products). Besides, keep a clean operating environment for the fixtures and system power supplies.
12. Please study this Installation Guide thoroughly and check the latest Technical Specification Sheets available from the Traxon website www.traxontechnologies.com before setup.
13. Any non-compliance of the Installation Guide will void the Traxon warranty.

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4. SYSTEM CONFIGURATION

FIG.11: System Diagram

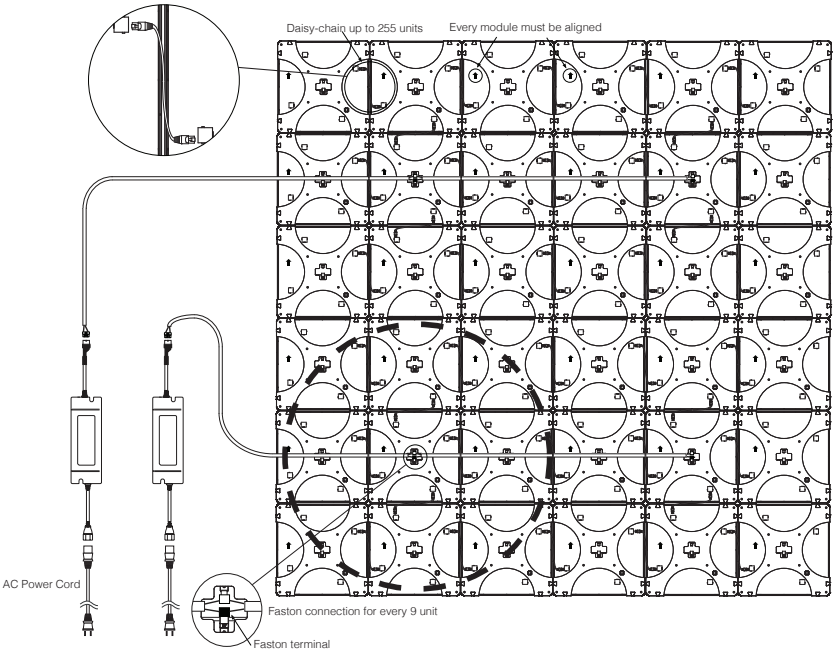
Daisy-chain up to 255 units
Every module must be aligned
AC Power Cord
Faston connection for every 9 unit
Faston terminal

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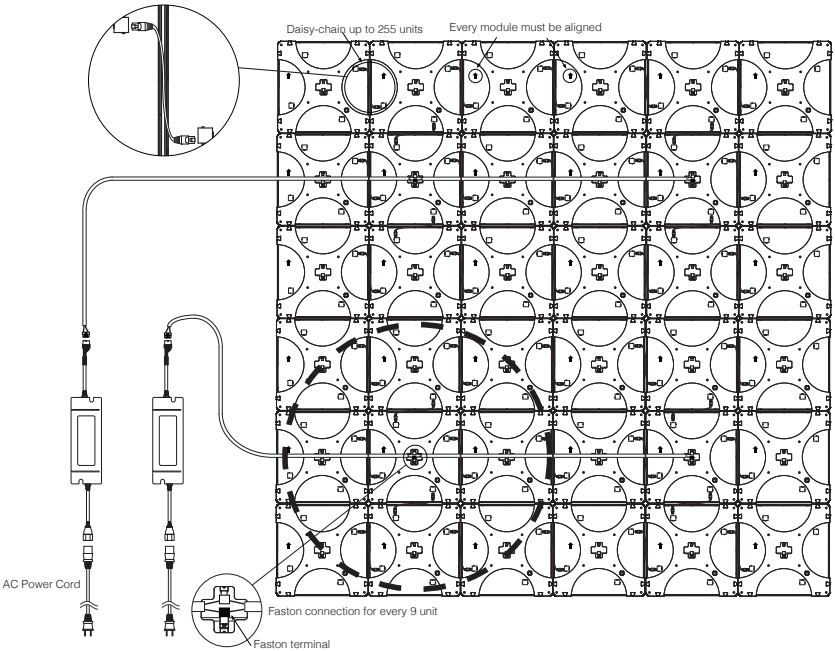
FIG.12: System Diagram - PC Connection


Daisy-chain up to 255 units
Every module must be aligned
AC Power Cord
Faston connection for every 9 unit
Faston terminal

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5. CARE AND MAINTENANCE

- Traxon™ products are of superior design and quality and should be treated with care. The recommendations below will help fulfill anY warranty obligations and gain good use and longevity from the products.
- Do not attempt or use the product(s) until you read and understand the installation instructions. Failure to adhere to these instructions could result in serious injury or property damage.
- Do not use product(s) if cables are damaged.
- Do not connect cables and connectors when wet or in wet area. Moisture on bare connectors can cause electric shock and damage to product(s).
- Do not use product(s) in extreme heat environment. Ensure there is sufficient airflow and use cool air circulation if required.
- Do not drop, knock, or shake product(s). Rough handling can damage the electronics and void the warranty.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean products. Wipe with a damp cloth on housings and a dry cloth on electronics to remove dirt or dust.
- Do not attempt to service or repair the product(s) unless done by an authorized service personnel. Contact your local Traxon office or distributor for details.
- If the product is not working as specified, please contact your nearest authorized service center or Traxon Technologies office for assistance.

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6. TECHNICAL SPECIFICATION

Mood Light Motion

Light Source:	16 RGB LEDs
Power Input:	24V DC
Power Consumption:	5.5 Watts max. per module
Operating Temperature:	–30°C to +50°C (–22°F to +122°F); startup temperature, –20°C/–4°F

As with all electronic devices, LED output degrades over time - a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degradation is a complex function of many factors such as operating efficiency, duration of continuous operation, and operating conditions (e.g. ambient temperature).

Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers “sort” LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process always results in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

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7. TROUBLESHOOTING

Caution: Ensure power supply is OFF when disconnecting / connecting cables.

Problem	Cause	Possible Solutions
Product does NOT light up after installation	Incorrect power connection	• Check Mains Power • Check power supply leads and wire connections • Ensure output wires are connected with proper polarity
Shadowing	Light source covered	• Check for cables, wires or unwanted debris covering LED light source
Modules are dim	Excess products connected	• Ensure the power supplies are not overloaded due to an excess of products connected
Flickering	Incorrect power input/ Excess products connected	• Ensure the input voltage is correct • Ensure the power supplies are not overloaded due to an excess of products connected

If problems persist or the product is not working as specified, please contact your nearest authorized service center or Traxon Technologies office for assistance.

8. WARRANTY STATEMENT

Traxon Technologies warrants its Products against material or workmanship defects for a period of three (3) years from date of purchase, provided that the purchased items are used under the conditions stated in this user manual.

Please refer www.traxontechnologies.com for all warranty terms and conditions.

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